

Part 573 Safety Recall Report

16V-678

Manufacturer Name : New Flyer Industries Ltd.**Submission Date :** SEP 16, 2016**NHTSA Recall No. :** 16V-678**Manufacturer Recall No. :** R16-026**Manufacturer Information :**

Manufacturer Name : New Flyer Industries Ltd.

Address : 711 Kernaghan Avenue

Winnipeg, MB Canada 00 R2C3T4

Company phone : 204-224-6706

Population :

Number of potentially involved : 38

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2016-2016 New Flyer XN60

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : CNG/LPG

Descriptive Information : Xcelsior 60 Foot Compressed Natural Gas Heavy Duty Transit Bus

Production Dates : JUN 22, 2016 - SEP 14, 2016

VIN Range 1 : Begin : 5FYC8YC12GB049594 End : 5FYC8YC14GB049600 Not sequential

Vehicle 2 : 2016-2016 New Flyer XN40

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : CNG/LPG

Descriptive Information : Xcelsior 40 Foot Compressed Natural Gas Heavy Duty Transit Bus

Production Dates : JUN 22, 2016 - SEP 14, 2016

VIN Range 1 : Begin : 5FYC8FB04GC049653 End : 5FYC8FB16GF050035 Not sequential**Description of Defect :**

Description of the Defect : Pressure Relief Devices (PRD) installed in a new design of CNG fuel system, may fracture and separate from the fuel tank cylinder solenoid valve, resulting in a high pressure release of the CNG fuel from the tank.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : The unanticipated release of high pressure CNG gas, increases the potential for injury or fire.

Description of the Cause : Stainless steel tubing design of the new CNG fuel system vent lines, do not provide sufficient strain relief to allow for CNG type 4 fuel cylinder expansion

and contraction. The excessive strain results in the PRD component fracturing at its base where it threads into the solenoid valve body.

Identification of Any Warning that can Occur : None. However both failures did occur while refueling of the vehicle was in progress (fuel tank expansion).

Supplier Identification :

Component Manufacturer

Name : New Flyer of America
Address : 6200 Glenn Carlson Dr.
St. Cloud MINNESOTA 56301
Country : United States

Chronology :

In July of 2016, New Flyer introduced an upgraded CNG fuel system, with more modern componentry than our classic CNG fuel system which had been in use for more than two decades.

On 14 August 2016, New Flyer was informed of a high pressure release of CNG gas during refueling on a bus which was in the process of being delivered to a customer. That bus was returned to the production plant for analysis and repair.

Engineering began an A3 failure analysis with the support of the PRD component supplier to determine why the threaded portion of the PRD broke free from the valve body.

On 12 September 2016 a second report of a similar nature occurred, this bus was also on delivery to a customer and was returned to the plant. A comparison showed that the two failures on this new fuel system design, were identical in nature.

On 14 September 2016 New Flyer decided to declare recall status with NHTSA. A stop shipment order was sent to all manufacturing plants for buses with this same CNG fuel system design.

On 15 September 2016 New Flyer contacted all customers by phone who had already received buses with this CNG fuel system installed and request that they park their vehicles until such time as they could be repaired. The phone calls were followed immediately by electronic copies of letters indicating our intent to declare recall with NHTSA.

Description of Remedy :

Description of Remedy Program : New vent system tubing has been designed with improved strain relief, and once available will be supplied at not cost to the customers. Parts and labor costs to remove and replace these components will be covered under normal warranty. Both the vent lines and PRD's will be replaced with new product.

How Remedy Component Differs from Recalled Component : The shape and routing of the stainless steel vent tubing, is markedly and visually different than the original design installation.

Identify How/When Recall Condition was Corrected in Production : On 14 September 2016 a stop shipment order was put into effect for all vehicles with this specific CNG fuel system design. All product with this CNG Fuel system design leaving New Flyer after that date, will have the upgraded components associated with the corrective action.

Recall Schedule :

Description of Recall Schedule : Customers with effected product have already been contacted by phone and electronic letter. A formal recall letter will be issued once this recall is acknowledged by the ODI.

Planned Dealer Notification Date : NR - NR

Planned Owner Notification Date : SEP 19, 2016 - SEP 19, 2016

* NR - Not Reported